fluid, which is inimical to the formation of the pulp in the fruit, or impedes the spirals in the due performance of their functions. The chemical composition of this fluid, and whether it be absorbed directly from the soil, or eliminated within the plant in consequence of functional disease of its organs, will form the subject of future investigation; and I would venture to augur, the colony having now the assistance of a gentleman of high scientific acquirements, that not only the cause, but the cure of this very destructive disease will be shortly discovered.

METEOROLOGICAL OBSERVATIONS FOR JAN. 1846.

Chiswick.—January 1. Fine. 2, 3. Frosty: fine: overcast. 4. Rain. 5. Sharp frost: cloudy: clear and frosty. 6. Drizzly. 7. Overcast and mild throughout the day and night. 8. Cloudy and fine. 9. Uniformly overcast. 10. Overcast: drizzly rain. 11. Hazy and drizzly. 12. Cold haze. 13. Hazy: very fine. 14. Foggy: overcast and fine. 15. Fine. 16. Thick fog: rain at night. 17. Hazy: drizzly: cloudy and mild. 18. Foggy: rain at night. 19. Constant rain: boisterous, with rain at night. 20. Clear and fine. 21. Rain: densely clouded and mild: boisterous, with rain at night. 22. Boisterous, with rain: densely clouded. 23. Heavy showers. 24. Hazy and mild. 25. Rain. 26. Showery: heavy rain at night. 27. Clear: cloudy: rain at night. 28. Rain: cloudy: very high tide in the Thames: clear. 29. Rain. 30. Overcast. 31. Cloudy: windy at night.

Mean temperature of the month .... 43°·54
Mean temperature of January 1845 .... 38 ·69
Average mean temperature of Jan. for the last twenty years 36 ·46
Average amount of rain for the last twenty years .... 1 ·60 inch.

Boston.—Jan. 1. Stormy: rain last night. 2. Fine. 3. Cloudy. 4. Rain. 5. Fine. 6. Rain. 7. Cloudy. 8. Fine. 9—13. Cloudy. 14, 15. Fine. 16. Foggy. 17. Cloudy: rain A.M. and P.M. 18. Foggy. 19. Rain: rain early A.M.: rain P.M. 20. Windy: rain early A.M. 21. Cloudy: rain P.M. 22. Cloudy and stormy: rain early A.M. 23. Fine. 24. Cloudy: rain early A.M. 25. Fine: rain early A.M. 26. Cloudy: rain early A.M. 27. Fine. 28, 29. Rain. 30, 31. Cloudy.—N.B. Not so warm a January since January 1834: the average of that month was 44°·3.

Sandwick Manse, Orkney.—Jan. 1. Snow-showers. 2. Fine: frost: cloudy. 3. Cloudy: clear. 4. Clear: showers. 5. Bright: showers. 6. Damp: clear. 7. Cloudy: showers. 8. Showers: clear. 9. Cloudy: clear. 10. Rain: cloudy. 11. Drizzle: damp. 12. Drizzle: hazy. 13. Bright: cloudy. 14. Damp: cloudy. 15. Rain: drizzle. 16. Clear. 17. Damp. 18. Bright: cloudy. 19. Damp: showers. 20. Rain: drizzle. 21. Rain: clear. 22. Damp: rain. 23. Fine: damp. 24. Fine: frost: damp: aurora. 25. Rain: cloudy. 26. Damp. 27. Damp: rain: clear. 28. Cloudy: showers. 29. Showers. 30. Cloudy: rain. 31. Drizzle: showers.

Applegarth Manse, Dumfries-shire.—Jan. 1. Snow-showers. 2. Frost: clear and fine. 3. Wet all day. 4. Fine A.M.: shower P.M. 5. Frost A.M.: rain P.M. 6, 7. Showery. 8. Fair. 9, 10. Slight drizzle. 11. Slight drizzle: fog. 12. Fair and mild. 13. Fair A.M.: rain P.M. 14. Fair: one slight shower. 15. Wet A.M.: cleared: fine. 16. Frost, slight: fine. 17. Fair A.M.: slight shower P.M. 18. Fair, but cloudy. 19. Rain nearly all day. 20. Rain all day: flood. 21. Fair, but cloudy. 22. Drizzling rain. 23. Rain and fog. 24. Thick fog. 25. Heavy rain: flood. 26. Drizzling rain. 27. Rain A.M.: fair: rain P.M. 28—31. Rain.

Mean temperature of the month .... 43°·0
Mean temperature of January 1845 .... 36 ·1
Mean temperature of Jan. for twenty-three years . 34 ·5
Mean rain in January for eighteen years .... 2 ·57 inches.